

Patent Abstracts of Japan

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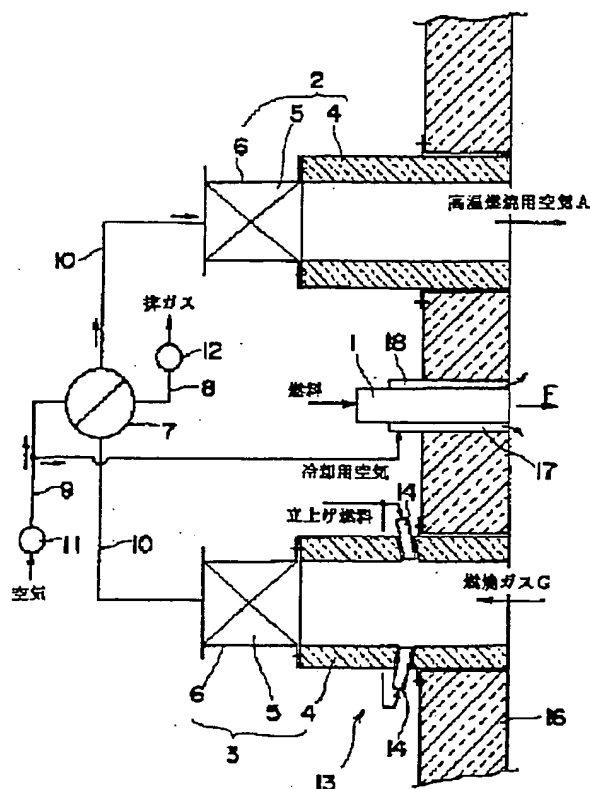
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TITLE : HEAT STORAGE TYPE LOW NOX BURNER



ABSTRACT : PURPOSE: To realize alternating combustion without requiring the switching of a fuel only with the switching of combustion air.

CONSTITUTION: Combustion air supply means 2, 3 of at least two systems are provided, directly opened toward the interior of a furnace 15, which means carry out the supply of combustion air and the exhaust of combustion gas through a heat storage member 5 provided therein. High temperature combustion air is injected through the heat storage member 5 heated by the heat of the combustion gas. On the other hand, at least one fuel nozzle 1 is provided in the furnace 15 substantially parallelly for injecting a fuel, whereby the fuel is injected into the furnace 15 without interruption. Simultaneously, high temperature combustion air is injected into the furnace 15 alternately from the combustion air supply means 2 or 3 parallelly to the foregoing successive fuel injection. The high temperature combustion air and fuel injected separately into the furnace 15 are brought to slow combustion at any location in the furnace 15 whereby low NO_x combustion is kept substantially in the same manner as the alternate combustion without requiring the switching of a fuel but only with the switching of combustion air.

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